CLAIMS

1	1. A multilayer hose comprising an inner layer surrounded by a first
2	layer of reinforcement material around which is formed a second layer of
3	reinforced material and over which is placed an outer cover, in which the two
4	reinforcement layers have an intermediate layer of elastomeric material applied as
5	a water-based emulsion.
1	2. A hose as claimed in Claim 1 wherein the intermediate layer has a
2	moisture content substantially in the range 0.5 to 1.5%.
1	3. A hose as claimed in Claim 2 wherein the moisture content is
2	substantially 1%.
1	4. A hose as claimed in Claim 1 wherein the intermediate layer
2	comprises a water based rubber.
1	5. A hose as claimed in Claim 4 wherein the intermediate layer
2	comprises a water based neoprene rubber.
. 1	6. A hose as claimed in Claim 1 wherein at least one of the said first
2	and second reinforcement layers comprises a layer of braided filamentary material.
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1	7. A hose as claimed in Claim 1 wherein the said first and second
2	reinforcement layers comprise the same or similar material.
1	8. A hose as claimed in Claim 1 wherein the said inner layer and outer
2	cover comprise internal and external flexible resilient layers.
1	9. A hose as claimed in Claim 8 wherein the internal and external
2	flexible resilient layers comprise an elastomeric material.
1	10. A method of producing a multilayer hose of the type comprising
2	internal and external flexible resilient layers between which is located a
3	reinforcement layer, in which inner and outer reinforcement layers have an
4	intermediate bonding layer; the said method comprising the steps of:
5	providing a first reinforcement layer over the said internal flexible resilient
6	layer;
7	applying a water-based elastomeric emulsion over the said first
8	reinforcement layer to form an intermediate layer;
9	drying the said water-based emulsion to reduce the moisture content
10	thereof;
11	providing a second reinforcement layer over the said elastomeric layer and
12	subsequently curing the said elastomeric layer to bond the two reinforcement
13	layers together.

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1	11. A method as claimed in Claim 10 wherein the said drying step
2	comprises the step of passing air over the said emulsion.
1	12. A method as claimed in Claim 10 wherein the moisture content of
2	the said intermediate layer is reduced to lie substantially in the range of 0.5 to
3	1.5% by weight in the drying step.
1	13. A method as claimed in Claim 10 wherein the said emulsion
2	comprises a water based rubber.
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1	14. A method as claimed in Claim 13 wherein the said emulsion
2	comprises a water based neoprene rubber.
1	15. A method as claimed in Claim 10 wherein the step of applying the
2	said water based emulsion comprises the step of feeding the said internal resilient
3	layer and said first reinforcement layer into a reservoir of the said emulsion.
1	16. A method as claimed in Claim 10 wherein at least one of the said
2	first and second reinforcement layers comprises a layer of filamentary material
3	braided and the step of applying the said reinforcement layer(s) comprises the step
4	of braiding the said filamentary material over the surface of a respective adjacent
5	inner layer.

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- 1 Apparatus for producing a multilayer hose having inner and outer 2 flexible resilient layers with two braided filamentary layers between them and an 3 intermediate water-based elastomeric emulsion bonding layer between the said 4 braided layers, the said apparatus comprising: a first braiding station, an 5 application station at which water-based elastomeric emulsion is applied, a drying 6 station at which moisture content of the said elastomeric bonding layer is reduced 7 to a pre-determined level, and a second braiding station at which a further 8 filamentary braided layer is formed over the intermediate layer.
 - 18. Apparatus as claimed in Claim 17 wherein the said application station comprises a reservoir for the said water based emulsion and means for feeding the inner layers of the hose through the said emulsion.
 - 19. Apparatus as claimed in Claim 17 wherein the said drying station comprises air drying means for reducing the said moisture content from the said intermediate layer.
 - 20. Apparatus as claimed in Claim 18 wherein the said drying station further comprises infrared drying means for further reducing the moisture content from the said intermediate layer.